

APPENDIX B

LIST OF MCTL ACRONYMS AND ABBREVIATIONS

°C	degree Celsius	ACC	Air Combat Command (USAF)
γ	gamma	ACCESS	advanced cosmic-ray composition experiment for space station
λ	lambda	ACHR	acetylcholine receptor
μ	micron	ACIPS	advanced collective integrated protection system
μA	microampere	ACM	attitude control module
μF	microfarad	ACT	active control technology
μJ	microjoule	ACT/FHS	active control technology/flying helicopter simulator
μJ/cm	microjoules per square centimeter	ACTD	advanced concept technology demonstration
μm	micrometer	ACTIVE	advanced control technologies for integrated vehicles
μsec	microsecond	ACTS	Advanced Communication Technologies and Services
Ω	ohm	ACVs	air cushion vehicles
2-D	two-dimensional	AD	air defense
3-D	three-dimensional	AdAPT	Adaptive Aircraft Performance Technology
3P	prefragmented, programmable, proximity	ADN	ammonium dinitramide
A	ampere	ADN	ammonium dinitrimide
Å	angstrom	ADP	adenosine diphosphate
A&EM	armaments and energetic materials	ADS	advanced distributed system
A/D	analog to digital	ADS	air defense suppression
A/O	acoustic/optic	ADSRC	Advanced Distributed Simulation Research Consortium
A/sec	amperes per second	ADTS	asynchronous digital transmission system
AAAV	advanced amphibious assault vehicle	AEDC	Arnold Engineering Development Center
AAN	Army After Next	AEOS	advanced electro-optical system
ABATE	ACTS Broadband Aeronautical Terminal and Experiment	AES	advanced encryption standard
ABCS	Army Battle Command System	AES	all-electric ship
ABE	autonomous Benthic explorer	AES	auger electron microscope
ABEC	Annular Bearing Engineers Committee	AETWG	Armaments and Energetic Materials Technology Working Group
ABIS	Advanced Battlespace Information System		
ABL	airborne laser		
ABS	antilock braking system		
AC	alternating current		

AEW	aircraft early warning	AIP	air-independent propulsion
AFATDS	Advanced Field Artillery Tactical Data System	AISI	American Iron and Steel Institute
AFB	Air Force Base	AIST	Agency of Industrial Science and Technology (Japan)
AFC	alkaline fuel cell	AIWS	advanced interdiction weapon system
AFIT	Air Force Institute of Technology	AJ	anti-jam
AFM	atomic force microscopy	AL	Albania
AFOSR	Air Force Office of Scientific Research	Al-Li	aluminum-lithium
AFOSR/EOARD	Air Force Office of Scientific Research/European Office of Aerospace Research and Development	ALPS	assembly-line processing system
AFRL	Air Force Research Laboratory	ALU	arithmetic logic unit
AFRL/PR	Air Force Research Laboratory/Propulsion Directorate	AM	antimaterial
AFS	atomic frequency standard	Am	americium
AFSAB	Air Force Science Advisory Board	AM	amplitude modulation
AFSOC	Air Force Special Operations Command	AM0	air mass zero
AFSPC	Air Force Space Command	AM1.5	air mass 1.5
AFV	armored fighting vehicle	AMC	Army Materiel Command
AG	Australia Group	AMC	Air Mobility Command (USAF)
Ag	silver	AMCOM	U.S. Army Aviation and Missile Command
AGARD	Advisory Group for Aerospace Research and Development	AMD	antimissile defense
AGB	advanced gun barrel	AMGS	advanced material gun system
AgGaSe2	silver gallium selenide	AMMO	azidomethylmethyloxetane
AGL	above ground level	AMP	adenosine mono-phosphate
AGMA	American Gear Manufacturers Association	AMR	amorphous magnetoresistive
AGR	advanced gas reactor	AMRAAM	advanced medium-range air-to-air missile
AGT	aboveground test	AMRL	Aeronautical and Maritime Research Laboratory (Australia)
AGT	advanced gun technology	AMR	amorphous magnetoresistive
Ah	ampere-hour	AMTEC	alkali metal thermal-to-electric converter
AHRS	attitude and heading reference system	AMTI	airborne moving target indication
AHS	automated highway system	amu	atomic mass unit
AI	artificial intelligence	AN	ammonium nitrate
AIAA	American Institute of Aeronautics and Astronautics, Inc.	ANL	Argonne National Laboratory
AIN	aluminum indium nitride	ANMO	azidonitratomethyloxetane
AIP	air-independent power	ANN	artificial neural network
		ANNG	Anti-Navire Nouvelle Génération
		ANSI	American National Standards Institute

ANTEC	alkali-metal thermal-to-electrical converter		
AOC	air operations center	ASIC	application-specific integrated circuit
AP	ammonium perchlorate	AS-15s	Russian cruise missile
AP	antipersonnel	ASMD	antiship missile defense
AP	armor piercing	ASRI	Australian Space Research Institute
APAM	antipersonnel/antimaterial	ASRP	Adaptive Spectral Reconnaissance Program
APB	antimatter particle beam		
APC	armored personnel carrier	ASTAMIDS	airborne stand-off minefields detection system
APFSDS	armor piercing, fin-stabilized, discarding sabot	ASTM	American Society for Testing and Materials
APG	Aberdeen Proving Ground (Maryland)	ASTMP	Army Science and Technology Master Plan
APGM	autonomous precision-guided munition	ASTWG	Aeronautics Systems Technology Working Group
API	application program interface	ASUW	antisurface warfare
APOD	aerial port of debarkation	ASW	antisubmarine warfare
APS	active protection system	AT	antitank
APS	advanced photon source	AT	Austria
APS	American Physical Society	ATA	Advanced Technology Attachment
AR	Argentina	ATAC	Advance Technology Aircraft
Ar	argon	ATACMS	Army Tactical Missile System
ARDEC	Army Research, Development, and Engineering Center	ATACS	advanced tank cannon system
ArF	argon fluoride	ATAR	Advanced Technology Assessment Report
ARL	Army Research Laboratory	ATC	air traffic control
ARO	Army Research Office	ATCC	American type culture collection
ARTEMIS	Advanced Relay and Technology Mission Satellite	ATD	advanced technology demonstration
As	arsenide	ATD	Advanced Technology Development
A-S	antispoofing	ATE	automatic test equipment
AS4/T-500	carbon filter designations	ATF	automatic terrain following
ASARS	Advanced Synthetic Aperture Radar Systems	ATGW	antitank guided weapon
ASCM	advanced spaceborne computer modular	ATIC	advanced thin ionization calorimeter
ASCM	antiship cruise missile	ATIP	Asia Technical Information Program
ASDL	Aerospace Systems Design Laboratory (Georgia Institute of Technology)	ATIRCM	advanced tactical infrared countermeasures
ASDL	asymmetrical digital subscriber line	ATL	advanced tactical laser
ASE	amplified spontaneous emission	ATM	asynchronous transfer mode
a-Si	amorphous silicon		

ATP	adenosine triphosphate	BFV	Bradley fighting vehicle
ATR	air turbo ramjet	BG	Bulgaria
ATR	automatic target recognition	BGO	bismuth germanate
AU	Australia	BHEGA	bis-2-hydroxyethylglycolamide
Au	gold	BHP	brake horsepower
AUV	autonomous underwater vehicle	BICMOS	bipolar complementary metal oxide semiconductor
AUV	autonomous unmanned vehicle	BIDS	biological integrated detection system
AVIRIS	airborne visible/infrared imaging spectrometer	BIFF	battlefield identification friend or foe
AVLIS	atomic vapor laser isotope separation system	BIT	broadband information technology
AVS	automated vapor sampling	BIT	bismuth titanate
AW	advanced weapons systems	BITA	butylene imine trimesamide (polyfunctional aziridine amides with isophthalic, trimesic)
AWACS	Airborne Warning and Control System	BITE	built-in-test-equipment
B	magnetic induction	BITWG	Biological Technology Working Group
B/C	biological and chemical	BJT	bipolar junction transistor
Ba	barium	BL	biosafety level
BACT	best available control technology	BLOS	beyond line of sight
BAMO	bis(azidomethyl)oxetane	BLSR	bidirectional line-switched ring
BAPO	phosphine oxide	BLU 80/B	Bigeye Weapon
bar	0.987 atmospheres	BMD	Ballistic Missile Defense
BASE	beta alumina solid electrolyte	BMDO	Ballistic Missile Defense Organization (now MDA)
BASS	bulk avalanche semiconductor switch	BN	boron nitride
BAT	brilliant antitank	BNCP	cis-bis(5-nitrotetrazolato) penta-amminecobalt (iii) perchlorate
BATES	Battlefield Artillery Target Engagement System	BNMO	bis(nitratomethyl)oxetane
BCIS	battlefield combat identification system	BNO	butadienitrileoxide
BCMO	bischloromethyloxetane	BOBBA 8	bis(2-methyl aziridiny)-2-(2-hydroxypropanoxy)propylamino phosphine oxide
BDA	battle damage assessment	BOL	beginning of life
BDNPA	bis(2,2-dinitropropyl) formal and acetal	BOOM	binocular omnidirectional-oriented monitor
BDNPF	bis(2,2-dinitropropyl) formal	BOSS	bistable optically controlled semiconductor switch
BDU	battle dress uniform	BP	black powder
BE	Belgium	bps	bits per second
BEAMTAP	Broadband and Efficient Adaptive Method for TTD Array Processing	BR	bacteriorhodopsin
BEC	Bose-Einstein condensates		
BER	bit error rate		

BR	Brazil	CAD	chemical agent detector
BRDF	bidirectional reflectance distribution function	CAD	computer-aided design
BRM	biological response modifier	CAE	common application environment
BRWL	bistatic radar for weapon location	CAE	computer-aided engineering
BSC	biological safety cabinet	CAEP	China Academy of Engineering Physics
BTJ	buried triple junction	CAEPE	Centre d'Achèvement et d'Essais des Propulseurs et Engins
BTTN	butanetrioltrinitrate	CAG	carrier aircraft group
BTU	British thermal unit	CAI	computer-aided inspection
BTU/ft ²	BTU per square foot	cal	calorie
BuNENA	butyl-2-nitratoethyl nitramine	cal/cm2	calories per square centimeter
BV	battlefield visualization	cal/cm2-sec	calories per square centimeter second
BVP	blood volume pressure	CAM	chemical agent monitor
BVR	beyond visual range	CAM	computer-aided manufacturing
BW	biological weapon(s)	CANDU	Canadian deuterium uranium (reactor)
BWB	blended wing/body	CAP	combat air patrol
BWC	Biological Weapons Convention	CAPI	cryptographic application interface
BWO	backward wave oscillator	CARC	chemical agent resistant coating
BWR	boiling water reactor	CASA	Construcciones Aeronauticas S.A. (Spain)
C	Celsius temperature; centigrade	CAS	Chemical Abstract Service
C/A	course acquisition	CAS	close air support
C2	command and control	CAS	computer-aided servicing
C2I	command, control, and intelligence	CAS/M	computer-aided servicing/maintenance
C3	command, control, and communications	CAT	computer-aided testing
C3CM	command, control, and communications countermeasures	CAT	computerized axial tomography
C3I	command, control, communications, and intelligence	CATOX	catalytic oxidation
C4	command, control, communications, and computation	CATT	controlled avalanche transit-time triode
C4I	command, control, communications, computers, and intelligence	CATTB	Component Advanced Technology Test Bed
C4I2	command, control, communications, computing, intelligence, and information systems	CAV	common aero vehicle
C4IFTW	C4I for the warrior	CAVE	computer automatic virtual environment
CA	Canada	CB	coherent bremsstrahlung
CA	certification authorities	CB	chemical and biological
CAA	Clean Air Act	CBD COM	Chemical Biological Defense Command (Army)
CAA	Concepts Analysis Agency (Army)	CBM	conventional ballistic missile

c-BN	cubic boron nitride	CECOM	Communications-Electronics Command (Army)
CBPS	chemically and biologically protected shelter	CEP	circular error probable; circle of equal probability
CBRIF	Chemical Biological Incident Response Force	CEPT	Conference of Postal and Telecommunications Administration
CBW	chemical and biological warfare	CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CC	combinatorial chemistry	CEREM	Le Centre d'Études et de Recherches sur les Matériaux
cc	cubic centimeters	CFC	chlorofluorocarbon
C–C	carbon-carbon	CFD	computational fluid dynamics
CCD	charge-coupled device	CFHAT	composite fire hazard analysis tool
CCD	closed-cycle diesel	CFIT	controlled flight into terrain
CCL	Commerce Control List	CFL	coupled ferrite lines
CCM	computer-controlled machines	CFRP	carbon-fiber-reinforced plastic
CCM	counter-countermeasures	CGA	column grid array
CCMS	Committee on the Challenges of Modern Society (NATO)	CGA	computer-generated actor
CCS	common channeling signaling	CH	Switzerland
CCW	counter-clockwise	CHEMEX	chemical exchange process
Cd	cadmium	CHER	catalytic heat exchanger/reactor
CD	compact disk	CHESS	Cornell High-Energy Synchrotron Source
CD	Compton diode	CHPS	Combat Hybrid Power Systems
CD	critical diameter	CHSSI	Common High Performance Computing Software Support Initiative
CD	critical dimension	CHTWG	Chemical Technology Working Group
CDC	Centers for Disease Control and Prevention	CIAM	Central Institute of Aviation Motors (Russia)
CdHgTe	cadmium mercury telluride	CIC	combat information center
CDISS	Centre for Defence and International Security Studies	CID	charge injection device
CDL	chemical double layer	CID	combat identification
CDMA	code division multiple access	CIDDS	combat identification dismounted soldier
CD–ROM	compact-disc read-only memory	CIF3	chlorine trifluoride
CDs	Compton diodes	CINO	Office of the Chief Inspector of Naval Ordnance (United Kingdom)
CDT	critical developing technology	CIP	cold isostatic pressing
CdTe	cadmium telluride	CIS	copper indium diselenide
CDU	control and display unit	CISC	complex instruction set computing
CdZnTe	cadmium zinc telluride		
CE	chemical energy		
CE	computing element		
CEA	Commissariat à l'Énergie Atomique (The French Atomic Energy Commission)		
CEC	California Energy Commission		

CIWG	Combat Identification Working Group	CNO	Chief of Naval Operations
CJCSI	Chairman, Joint Chiefs of Staff Instruction	CNRM	Centre National de Recherches Météorologiques
CKEM	compact kinetic energy missile	CNRS	Centre National de Recherche Scientifique
CL	Chile	CNS	central nervous system
CL-14	5,7-diamino-4,6-dinitrobenzo-furazane-1-oxide	CNT	carbon nanotube
CL-20	hexanitrohexaazaisowurtzitane	CNT	Counterspace
CL-20/HNIW	hexanitro-hexaazaisowurtzitane	CNTD	controlled nucleation thermal decomposition
CLC	cholesteric liquid crystal	CO	carbon monoxide
CLO	counter low observable	CO	central office
CLOS	command-line-of-sight	CO	Colombia
CLT	critical layer thickness	CO	commanding officer
CM	countermeasures	CO ₂	carbon dioxide
cm	centimeter	Co-60	Cobalt-60
CMC	ceramic matrix composite	COBRA	collection of broadcasts from remote assets
CMIP	common management information protocol	COC	combat operations center
CMIS	Center for Mathematical and Information Sciences (Australia)	COCOM	Coordinating Committee for Multilateral Strategic Export Controls
CMISE	common management information service element	COIL	chemical oxygen iodine lasers
CMM	coordinate measuring machine	COLEX	column exchange
CMOL	CMIP over logical link control	COM/SATCOM	communications/satellite communications
CMOS	complementary metal oxide semiconductor	COMINT	communication intelligence
CMOT	common management information service over TCP/IP	COMM	communication
CMOT	complementary metal oxide technology	COMSEC	communications security
CMP	chemical mechanical planarization	CONUS	Continental United States
CMST	common management information services over TCP/IP	CO-OP	Consortium for Optical and Optoelectronic Technologies in Computing
CMU	Carnegie Mellon University	COP	common operational picture
cmW	centimeter wave	COTS	commercial off-the-shelf
CMW	centimeter wave	CP	2-(5-cyanotetrazolato) penta-amine-cobalt (iii) perchlorate
CN	China	CPB	charged particle beam
CNA	Center for Naval Analyses	CPE	customer premises equipment
CNC	computer numeric(al) control	CPU	central processing unit
CNE	Centre National d'Études Spatiales (France Space Agency)	CR	channeling radiation
CNM	customer network management	CR	Czech Republic

CRDA	commercial research and development agreement	CW	chemical weapon(s)
CREATIS	Centre de Recherche et d'Applications en Traitement de l'Image et du Signal (Center for Research and Applications in Image and Signal Processing)	CW	clockwise
CREB	cyclic AMP response element binding	CW	continuous wave
CRÈME	cosmic ray effects on micro-electronics	CWC	Chemical Weapons Convention
CRL	Communications Research Laboratory (Japan)	CXRD	coaxial X-ray diode
CRM	corrosion-related magnetic	CZ	convergence zone
CRT	cathode-ray tube	D	deuterium
CRW	Canard Rotor Wing	D*	spectral detectivity
CRYPTO	cryptographic	D/A	digital to analog
CS	Czechoslovakia	D ₂ O	deuterium oxide (heavy water)
CSERIAC	Crew System Ergonomics Information Analysis Center	DAB-P	digital audio baseband processor
CSIRO	Commonwealth Scientific and Industrial Research Organization (Australia)	DAC	digital to analog converter
CSNSM	Centre de Spectrométrie Nucléaire et de Spectrométrie de Masse	DAF	diaminofarazan
CSP	chip-scale packaging	DARO	Defense Airborne Reconnaissance Office
CSU	channel service unit	DARPA	Defense Advanced Research Projects Agency
CT	computerized tomography	DAS	defensive aid suite
CTA	column and grid array	DATB	diaminotrinitrobenzene
CTBT	Comprehensive Test Ban Treaty	dB	decibel
CTE	coefficient of thermal expansion	DBC	direct bonded copper
CTIS	central tire inflation system	DBD	delayed breakdown device
CTP	common tactical picture	dBm	decibel referred to 1 milliwatt
CTP	composite theoretical performance	DBR	distributed Bragg reflectance
CTPB	carboxyl-terminated polybutadiene	DBRN	data-based referenced navigation
CTWS	case telescoped weapon system	DC	direct current
Cu	copper	DCC	digital cross-connect system
CU	Cuba	DCE	distributed computing environment
CURV	cable-controlled underwater recovery vehicle	DCN	data communication networks
CVD	chemical vapor deposition	DCOR	deterministic combat model code
CVDS	continuous variable dynamic system	DCS	digital cross-connect systems
CW	chemical warfare	DCT	Developing Critical Technologies
		DCTP	defense critical technologies plan
		DD/DT	deuterium deuterium/deuterium tritium
		DDL	data description language
		DDR&E	Director of Defense Research & Engineering
		DDT	deflagration to detonation transition
		DDUS	Deep Depth UNDEX Simulator

DE	directed energy	DINGU	dinitroglycoluril
DE	discrete event	DIPAM	diaminohexanitrobiphenyl
DE	Germany (ISO)	DIRCM	defensive infrared countermeasures
DE ATAC	Directed Energy Advanced Technology Aircraft	DIS	distributed interactive simulation
DECADE	DNA X-ray simulator program	DIVX	digital video express
DECON	decontamination	DIW	detection, identification, warning
DEDS	discrete event dynamic system	DK	Denmark
deg/hr	degrees/hour	DKTWG	Directed Energy and Kinetic Energy Technology Working Group
DEMO	demonstration	DLC	diamond-like carbon
DEMP	dispersed electromagnetic pulse	DLC	digital loop carrier
DERA	Defence Evaluation and Research Agency (United Kingdom)	DLC	drop loop carrier
DERA	Defence Evaluation and Research Agency (UK)	DLL	dynamic link library
DES	data encryption standard	DLR	Deutsche Forschungsanstalt für Luft und Raumfahrt (German Aerospace Center)
DES	distributed energy store	DLR	German Aerospace Center
DET	distributed explosive	DME	distance-measuring equipment
DEW	directed energy weapon	DML	data modification language
DF	deuterium fluoride	DMS	diluted magnetic semiconductors
DF	difluor: methyl phosphonyl difluoride	DMSO	dimethyl sulfoxide
DFAD	digital feature analysis data	DN	bearing bore in mm multiplied by speed in rpm
DFE	diferrocenylethane	DNA	Defense Nuclear Agency (now part of DTRA)
DFE	direction-finding equipment	DNA	deoxyribonucleic acid
DGA	Direction Générale de l'Armement (French Defense Procurement Agency)	DNGU	dinitroglycoluril
DGNSS	differential global navigation satellite system	DNHR	dynamic nonhierarchical routing
DGPS	differential Global Positioning System	DNS	Doppler Navigation System
DGZ	designated ground zero	DNSS	Defense Navigation Satellite System
DHG	oxalohydroxamic acid	DOB	depth of burst
DHHS	Department of Health and Human Services	DOC	Department of Commerce
DHV	Demonstrateur Hyper Veloce (Aerospatiale missile)	DoD	Department of Defense
DIAL	differential absorption LIDAR	DODD	Department of Defense Directive
DIC	dispositif d'identification au combat	DOE	Department of Energy
DIMES	Delft Institute of Microelectronics and Submicron Technology (Netherlands)	DOF	depth of focus
		DOJ	Department of Justice
		DOS	Department of State
		DOT	Department of Transportation
		DQ	detection quotient
		DRAM	dynamic random access memory

DRDO	Defence Research and Development Organisation (India)	DVD	digital video disk
DRE	Defence Research Establishment	DZ	Algeria
DREAM	directed radio-frequency energy-assessment model	E	energy
DRES	Defense Research Establishment Suffield (Canada)	e	limit of $\left(1 + \frac{1}{n}\right)^n$ as n approaches infinity
DREV	Defence Research Establishment Valcartier (Canada)	e.b.b	equivalent blackbody
DRM	dead-reckoning module	E/O	electro/optical
DS	digital signals	EA	electronic attack
DS	directionally solidified	EAA	Export Administration Act
DS-0	digital signal level 0	EADS	European Aeronautic Defense and Space Company
DS-I	digital signal level 1	EAR	Export Administration Regulations
DSL	digital subscriber line	EB	electron beam
DSMAC	digital scene matching area correlation	EBDW	electron-beam direct writer
DSMP	Defense Meteorological Satellite Program	e-beam	electron beam
DS-N	digital signal hierarchy	EBPVD	electron-beam physical vapor deposition
DSP	Defense Support Program	EBR-II	Experimental Breeder Reactor II
DSP	digital signal processor (processing)	EC	European Commission
DSRO	Defense Science Research Organization (India)	EC	electronics and countermeasures
DSTO	Defense Science and Technology Organization (Australia)	ECAAM	electrochemically assisted arc machine
DSU	data service unit	ECAE	equal channel angular extension
DSV	deep submersible vehicle	E-Cash	electronic cash
DT	deuterium tritium	ECC	elliptic curve cryptography
DTAP	Defense Technology Area Plan	ECCM	electronic counter-countermeasures
DTE	data terminal equipment	ECCN	Export Control Classification Number
DTED	digital terrain elevation data	ECD	Eurocopter Deutschland
DTG	dry-tuned gyroscope	ECM	electronic countermeasure
DTG	dynamically tuned gyroscope	ECMWF	European Centre for Medium-Range Weather Forecasts
DTIC	Defense Technical Information Center	ECR	electron cyclotron resonance
DTO	Defense Technology Objective	ECS	electrostatic chucks
DTR	data transfer rate	ED	electric drive
DTRA	Defense Threat Reduction Agency	EDFA	erbium doped/fiber amplifier
DU	depleted uranium	EDM	electrical discharge machines
DU	digitized unit	EDO	extended data out
DUV	deep ultraviolet	EDP	electric dipole potential
		EDP	electric dipole-produced

EEC	European Economic Community	EMS	Energy-Management System
EEG	electroencephalogram	EMK	electromagnetic weapon
EELV	evolved expendable launch vehicle	ENA	energetic neutral atom
EEPROM	electrically erasable programmable read-only memory	ENTWG	Energy Systems Technology Working Group
EFP	explosively formed penetrator	EO	electro-optical
EFPI	extrinsic Fabry-Perot interferometer	E _o	sublimation energy
EG	Egypt	EO-1	Earth Orbiter-1
EGI	embedded Global Positioning System inertial	EO-2	Earth Orbiter-2
EGM	Earth gravitational model	EOCCM	electro-optical counter-counter-measures
EGNOS	European Geostationary Navigation Overlay Service	EOCM	electro-optical countermeasures
EHF	extremely high frequency	EOD	explosive ordnance disposal
EIA	Electronic Industries Association	EOL	end-of-life
EID	electromagnetic induction detection	EOS	equation of state
ELAPS	equivalent laminated plate solution	EP	electronic protection
ELEX	electro-exchange	EPA	Environmental Protection Agency
ELF	extremely low frequency	EPC	electronic power conditioner
ELFE	extremely low-frequency electro-magnetic	EPLRS	enhanced position location reporting system
ELFE	extremely low-frequency emission	EPR	electron paramagnetic resonance
ELINT	electronic intelligence	EPRI	Electric Power Research Institute
ELPRS	enhanced position location reporting system	EPROM	erasable programmable read-only memory
ELTWG	Electronics Technology Working Group	EPS	environmental protection system
EM	electromagnetic	ER	electro-rheological
EMC	electromagnetic compatibility	ERA	explosive reactive armor
EMCDB	elastomer modified-cost double-based propellants	ERC	Energy Research Corporation
EMD	engineering and manufacturing development	ERCIM	European Research Consortium for Information and Mathematics
EMHD	explosive magnetohydrodynamic	ERINT	Extended Range Interceptor
EMHDG	explosive magnetohydrodynamic generator	EROS	Earth Resources Observation Systems
EMI	electromagnetic induction	ERP	effective radiated power
EMI	electromagnetic interface	ERS	electrically reconfigurable ship
EMI	electromagnetic interference	ERS-1	Earth Research Satellite
EMIS	electromagnetic isotope separation	ES	electronic suppression
EMK	electromagnetic	ESA	electronic safe and arm
EML	electromagnetic launch	ESA	European Space Agency
EMP	electromagnetic pulse	ESD	electrostatic discharge
		ESF	energy storage flywheel

ESG	electrostatically supported gyroscope	F	Fahrenheit
ESL	equivalent series inductance	F	farad
ESM	extended scattering mode	f/max	maximum frequency
ESM	electronic support measure	f/min	minimum frequency
ESO	European Southern Observatory	F3I	form, fit, function, and interchangeable
ESPRIT	European Strategic Program on Research in Information Technology	FA	functional areas
ESR	equivalent series resistance	FAA	Federal Aviation Administration
ESRP	European Supersonic Research Program	FAC	fast-acting closure
ET	electrothermal	FAC	forward air controller
ETC	electrothermal-chemical	FACE	Futur Avion de Combat Européen (French aircraft)
ETDL	Electronic Technology and Devices Laboratory	FACETS	flywheel attitude, control, energy transmission, and storage
ETH	Eidgenössisches Technische Hochschule	FADEC	full authority digital electronic engine controls
ETK	electrothermal gun	FADS	flush air data aystem
ETNO	European Telecommunications Network Operators	FAE	fuel-air explosives
ETS	Engineering Test Satellite	FALCON	fuel-air line charge ordnance neutralizer
ETS	engineering test stand	FAR	false acceptance ratio
ETSI	European Telecommunications Standards Institute	FAR	false-alarm rate
EU	Eötvös unit	FAST	field-adaptable systems technology
EU	European Union	FBCB2	Force XXI Battle Command Brigade-and-Below
EUCLIDES	Extreme UV Concept Lithography Development System	FBL	fly-by-light
EURESCOM	European Institute for Research and Strategic Studies in Telecommunications	FBL/PBW	fly-by-light/power-by-wire
EUT	end user terminal	FBM	fleet ballistic missile
EUV	extreme ultraviolet	FBW	fly-by-wire
EUVL	extreme ultraviolet lithography	FCC	Federal Communications Commission
eV	electron volt	FCG	flux-compression generator
EV	electronic vehicle	FCS	flight control system
EVA	extravehicular activity	FCV	future combat vehicle
EVM	environmental vapor monitor	FDA	Food and Drug Administration
EW	electronic warfare	FDDI	fast digital data interconnect
		FDIR	fault detection, isolation, and recovery
		FDM	frequency division multiplexing
		FEA	finite element analysis
		FEBA	forward edge of the battle area

FEFO	bis-2-fluoro-2,2-dinitroethylformal	FPD	flat panel display
FEL	free electron laser	FPE	fluoropolyester
FEMA	Federal Emergency Management Agency	FPGA	field programmable gate-array
FET	field effect transistor	FPKI	Federal Public Key Infrastructure
FFI	Forsvarets Forsknings Institutt	fps	feet per second
FFRDC	Federally Funded Research and Development Center	FR	France
FFT	fast Fourier transform	FRP	Federal Radionavigation Plan
FGAN	Forschungsgesellschaft für Angewandte Naturwissenschaften e.V.	FRP	fiber-reinforced plastic
FHA	Federal Highway Administration	FSAP	full-spectrum attack protection
FHS	flying helicopter simulator	fsec	femtosecond
FI	Finland	FSCS	Future Scout and Cavalry System
FIB	focused ion beam	FSS	frequency selective surface
FID	flame ionization detector	FSU	Former Soviet Union
FIFV	future infantry fighting vehicle	FTA	Foreign Technology Assessment
FIPS	Federal Information Processing Standard	FTIR	Fourier transform infrared
FIS	field ion spectrometry	FTIT	fan turbine inlet temperature
FIV	future infantry vehicle	ft-lb	foot-pound
FLAR	forward-looking automotive radar	FTW	for the warrior
FL	field LADAR	FWHM	full width at half maximum
FLC	ferroelectric liquid crystal	FXR	flash X ray
FLIR	forward-looking infrared radar	FY	Fiscal Year
FLS	forward-looking sonar	g	gram
FM	field manual	g	measure of acceleration of gravity [32 feet per second ² (9.8 m/second ²)]
FMRI	functional magnetic resonance imaging	G agents	nerve agents
FMS	foreign military sales	G&G	geodetic and geophysical
FMS	force modeling and simulation	G-7	group of seven industrial nations
FOC	final operating capability	G-8	G-7 nations plus Russia
FOG	fiber-optic gyroscope	Ga	gallium
FOGM	fiber-optic guided missile	GA	tabun (nerve agent)
FOPEN	foliage penetration	GaAs	gallium arsenide
FORTÉ	fast on-orbit recording of transient events	GABA	gamma-aminobutyric acid
FOV	field of view	Gal	Galileo
FPA	focal plane array	GAM	GPS-aided munition
FPD	flame photometric detector	GaN	gallium nitride
		GAO	General Accounting Office
		GAP	glycidylazide polymer
		GAUSS	Global Augmentation for Satellite Systems
		GB	sarin (nerve agent)

Gbits/s	gigabits per second	GRACE	Gravity Recovery and Climate Experiment
GBL	ground-based laser	GRC	John H. Glenn Research Center at Lewis Field [NASA (formerly the Lewis Research Center)]
GBq	gigabecquerel	GRMS	gravity root mean square
GC	gas chromatography	GRP	glass-reinforced plastic
GCCS	global command and control system	GS	ground systems
GD	soman (nerve agent)	GSAC	gas seal auxiliary closure
GDP	gross domestic product	GSFC	Goddard Space Flight Center
GDSS	group decision support system	GSI	Gesellschaft für Schwerionen-forschung mbH
Ge	germanium	GSLV	geosynchronous satellite launch vehicle
GE	Germany	GSM	global system for mobile communication
GEO	geosynchronous Earth orbit	GSR	galvanic skin response
GeV	giga electron volts	GST	glutathione S-transferase
GFE	government-furnished equipment	GSTAMIDS	ground standoff mine detection system
GFLOPS	giga (10 ⁹) floating point operations per second	GSTS	Ground Station Tailoring System
GHz	gigahertz (10 ⁹ hertz)	GSTWG	Ground Systems Technology Working Group
GHz/sec	gigahertz per second	GTE	gas turbine engines
GIG	global information grid	GTN	General Technology Note
GIS	Geographic Information System	GTO	gate turn-off
GLONASS	Global Navigation Satellite System (Russian)	GTO	geosynchronous transfer orbit
GLONASST	GLONASS system time	GUI	graphical user interface
GM	Geodetic Mission (GEOSAT)	GVC	ground combat vehicle
gm	gram	GW	gigawatt
GMCC	ground mobile command center	Gy	Gray (gy) is a unit of absorbed dose of ionizing radiation equal to 1 joule per kilogram of absorber
GMP	good manufacturing practices	H	hour
GMR	giant magnetoresistive	HA	hemagglutinin
GMTI	ground moving-target indication	HAB	high-altitude burst
GNSS	Global Navigation Satellite Systems	HAN	hydroxylamine nitrate
GOPS	giga (billion) operations per second	HAN	hydroxylammonium nitrate
GP	genetic polymorphism	HAP	hazardous air pollutant
GPa	gigapascals	HAP	hydroxylammonium perchlorate
GPA	one megabar	HARV	high alpha research vehicle
GPC	general-purpose computer	HAWK	homing all the way killer
GPIC	general-purpose integrated circuit	HAZMAT	hazardous materials
GPR	ground-penetrating radar		
GPS	Global Positioning System		
GPtS	Global Positioning and Time System		
GR	Greece		

HBIW	hexabenzyl-hexaazaisowurtzitane	HIPER-KIDS	high-performance kiosk and desktop system
HBO	hyperbaric oxygen	HIPPI	high-performance peripheral interface
HBT	hetero-bipolar transistors	HITL	hardware-in-the-loop
HCI	human computer interface	HISTEC	high-stability engine-control (Boeing program)
HDDR	high-density digital recording	HK	Hong Kong
HDL	high-level development language	HLA	high-level architecture
HDO	singly deuterated water	HLA	major histo compatibility
HDTV	high-definition television	HLOS	horizontal line of sight
HE	high explosive	HMD	helmet-mounted display
HE	human engineering	HMMWV	high-mobility multipurpose wheeled vehicle
HEAP	Human Effects Advisory Panel	HMO	health maintenance organization
HEAT	high explosive antitank	HMX	cyclotetramethylene-tetranitramine
HEDM	high-energy density material	HMX	Octogen
HEL	high-energy laser	HNF	hydrazinium nitroformate
HEMP	high electromagnetic pulse	HNIW	hexanitro-hexaazaisowurtzitane
HEMP	high-altitude electromagnetic pulse	HNO ₃	nitric acid
HEMT	high electron mobility transistor	HNS	hexanitrostilbene
HEO	highly elliptical orbit	HOB	height of burst
HEPA	high-efficiency particulate air	HOE	holographic optical element
HERF	high-energy radio frequency	hp	horsepower
HEST	High-Explosive Simulation Technique	HPC	high-performance computing
HET	horizontal emplacement test	HPC	high-pressure compressor
HEU	highly enriched uranium	HPCMO	High Performance Computer Modernization Office
HEV	hybrid-electric vehicles	HPCN	high-performance computing and networking
Hf	Hafnium (isomer)	HPE	high-power electronics
HF	high frequency	HPG	homopolar generator
HF	hydrogen fluoride	HPI	high-power impulse
HF	hydrofluoric acid	HPL	high-power laser
HFCG	helical flux compression generator	HPM	high-power microwave
HFET	heterostructure field-effect transistor	HPSLT	High-Power Semiconductor Laser Technology Program
HfF ₄	hafnium fluoride	HPVI	hypervelocity impact
HFIP	hexafluoroisopropanol	HRG	hemispherical resonator gyroscope
HFSW	high-frequency sky wave	HRR	high-range resolution
Hg	mercury	HRR-GMTI	high-range resolution ground moving- target indication
HgCdTe	mercury cadmium telluride		
HHS	Health and Human Services		
HIIS	heavy ions in space		
HIL	hardware-in-the-loop		
HIP	hot isostatic pressing		

HR-SEM	high-resolution scanning electron microscope	I/O	input/output circuit
HSCT	high-speed civil transport	I2	image intensifier
HSD	high strength to density	I2L	integrated injection logic
HSDB	high-speed data bus	I ²	image intensification
HSE	high-speed encryption	I ² R	power
HSI	human systems integration	IAB	Internet Activities Board
HSI	human systems interface	IAEA	International Atomic Energy Agency
HSI	hyperspectral imagery	IAEL	International Atomic Energy List
HSP	heat shock protein	IAG	International Association of Geodesy
HSR	High-Speed Research Program (NASA)	IAI	Israeli Aircraft Industries
HST	Hubble Space Telescope	IALA	International Association of Lighthouse Authorities
HST	hypersonic transport	IC	Iceland [IS - (ISO)]
HSTAMIDS	hand-held standoff mine detection system	IC	integrated circuit
HTGR	high-temperature gas-cooled reactor	IC	intelligence community
HTL	host technical liaison	IC2-SIP	International Command and Control Systems Interoperability Project
HTML	hypertext markup language	ICAO	International Civil Aviation Organization
HTO	singly tritiated water	ICBM	intercontinental ballistic missile
HTPB	hydroxyl-terminated polybutadiene	ICD	interface control document
HTS	high-temperature superconducting	ICE	integrated command environment
HTS	high-temperature synthesis	ICO	Intelligent Combat Outpost
HTT	horizontal tunnel test	ICR	intercooled recuperated
HTU	handheld terminal unit	ICRGT	intercooled recuperated gas turbine
HU	Hungary	ICS	intercommunications system
HUD	head-up display	ICT	(Fraunhofer) Institute for Chemical Technology (Germany)
HVAC	heating, ventilation, and air conditioning	ICt	incapacitating concentration time
HVI	hypervelocity impact	ID	identification
HVWS	Hypervelocity Weapon System	ID	incapacitating dose
HWR	heavy water reactor	ID	Indonesia
HY	high yield	IDE	integrated drive electronics
HYPR	Hypersonic Propulsion Technology Program (Japan)	IDL	interactive data language
HySET	Hydrocarbon Scramjet Engine Technology	IE	Ireland
HYSWAS	high-yield small waterplane area ship	IEEE	Institute of Electrical and Electronic Engineers
Hz	hertz	IEMP	internal EMP
		IF	intermediate frequency

IFF	identification friend or foe	InGaAs	indium gallium arsenide
IFOV	instantaneous field of view	INMARSAT	International Marine/Maritime Satellite
IFS	indirect fire system	INMS	integrated network management systems
IFSAR	interferometric synthetic aperture radar	InP	indium phosphorus
IFV	infantry fighting vehicle	INS	inertial navigation system
IGEB	Interagency GPS Executive Board	InSb	indium antimonide
IGBT	insulated gate bipolar transit	Internet	international computer network
IGBT	isolated gate bipolar transistor	INU	inertial navigation unit
IHAS	integrated helmet assembly subsystem	IO	information operations
IHCE	Institute of High Current Electronics (Russia)	IOM	Institute of Medicine
IHE	insensitive high explosive	Ip	impulse
IHPRPT	Integrated High Payoff Rocket Propulsion Technology	IP	internet protocol
IHPTET	Integrated High Performance Turbine Engine Technology	IP	isostatic pressing
IIL	International Industrial List	IPC	intermediate-pressure compressor
IL	Industrial List	IPFN	integrated pulse-forming network
ILL	Institut Max von Laue–Paul Langevin	IPN	Institut de Physique Nucléaire
ILS	instrument landing system	IPR	impulse response
IM	insensitive munitions	IPS	integrated power system
IM&C	information system management and control	IQ	Iraq
IMEC	Industrial Microelectronics Center	IR	infrared
IMETS	Integrated Meteorological System	IR	Iran
IMF	intelligent minefield	IR&D	independent research and development
IMPATT	impact avalanche transit-time triode	IRA	impulse radiating antenna
IMS	ion mobility spectrometry	IRCM	infrared countermeasures
IMT	industrial materials and technology	IRCOM	Institut de Recherche en Communications Optiques et Microondes
IMU	inertial measurement unit	IRE	Institute of Radioengineering and Electronics (Russia)
in.	inch	IRFPA	infrared focal plane array
IN	India	IRIG	Interrange Instrumentation Group
In	indium	IRST	infrared search and track
INAV	integrated navigation	IRU	inertial reference unit
IND	improvised nuclear device	IS	Iceland
INFO COM	information communications	IS	information system
INFO EXCH	information exchange	ISA	Industry Standard Architecture
INFOSEC	information security	ISA	inertial sensor assembly
INFOWAR	information warfare	ISAR	inverse synthetic aperture radar
		ISAS	Institute of Space and Astronautical Science (Japan)

ISDN	integrated services digital network	JFCC	Japan Fine Ceramics Center
ISIT	Fraunhofer Institute for Silicon Technology	JHU/APL	Johns Hopkins University/Applied Physics Laboratory
ISL	France-German Research Institute of Saint Louis	JINR	Joint Institute of Nuclear Research
ISO	International Standards Organization	JMA	Japan Meteorological Agency
I_{sp}	specific impulse	JMAT	Joint Service Medium-Caliber Automatic Gun Technology Group
ISR	intelligence, surveillance, and reconnaissance	JNLWP	Joint Nonlethal Weapons Program
ISS	integrated sensor suite	JP	Japan
ISS	International Space Station	JP	jet propulsion
ISSMO	International Society of Structural and Multidisciplinary Optimization	JPEG	Joint Photographic Experts Group
ISU	inertial sensor unit	JPL	Jet Propulsion Laboratory
IT	information technologies	JPO	Joint Program Office
IT	Italy	JSB	Japan storage battery
I_t	total impulse	JSF	Joint Strike Fighter
ITAG	inertial terrain-aided guidance	JSFWC	Joint Staff Future Warfighting Capability
ITAR	International Traffic in Arms Regulations	JSLIST	Joint Service lightweight integrated suit technology
ITRF	International Terrestrial Reference Frame	JSOW	Joint standoff weapon
ITS	Intelligent Transport System	JSRIM	Joint Services Requirement for Insensitive Munitions
ITTWG	Information Technology Technology Working Group	JSTARS	Joint Surveillance Target Attack Radar System
ITU	International Telecommunications Union	JT	joule-thomson
IW	information warfare	JTIDS	Joint Tactical Distribution Information System
IWG	Interagency Working Group	JTMD	Joint Theater Missile Defense
IXC	interexchange carrier	JTR	Joint Tactical Radio
J	joule	JTRS	Joint Tactical Radio System
J/cc	joules per cubic centimeter	JUXOCO	Joint Unexploded Ordnance Coordination Office
J/gm	joules/gram	JV	Joint Vision
J/kg	joules per kilogram	JWSTP	Joint Warfighting Science and Technology Plan
J/pulse	joules per pulse	k	magnetomechanical coupling+ factor
JCS	Joint Chiefs of Staff	K	Kelvin temperature
JDA	Japan Defense Agency	K	thousand (kilo)
JDAM	Joint direct attack munition	K-6	2,4,6-trinitro-2,4,6-triazacyclohexanone
JDIS	Joint Distributed Information System	kA	kiloamperes
JEM	Japanese Experiment Module	kA/cm ²	kiloamperes per cm ²

kA/ns	kiloampere per nanosecond	KTA	potassium titanyl arsenate
KAIST	Korea Advanced Institute of Science and Technology	ktap	one thousand dyne centimeters per second
kbar	kilobar	KTP	potassium titanyl phosphate
kbit	kilobit	kV	kilovolt
kbps	kilobits per second	kV/cm	kilovolts per centimeter
kcal	kilocalorie	kV/m	kilovolts per meter
kD	kilodaltons	kV/mil	kilovolts per mil
KDN	potassium dinitramide	kV/mm	kilovolts per millimeter
KE	kinetic energy	kV/ns	kilovolts per nanosecond
KEM	kinetic energy missile	KW	Kuwait
Keto-RDX	2,4,6-trinitro-2,4,6-triazacyclohexanone	kW	kilowatt
keV	kilo electron volt	kWe	kilowatt (electric)
KEW	kinetic energy weapon	kWh/kg	kilowatt-hours per kilogram
kG	kilogauss	l	liter
kg	kilogram	<i>L</i>	water beam attenuation length
kg/dm ³	kilograms per cubic decimeter	l/d	length-to-diameter
kg/kW	kilogram per kilowatt	L/D	lift/drag
kg/N	kilogram/Newton	LAAS	local area augmentation system
KGD	known good die	LADAR	laser detection and ranging
kHz	kilohertz	LADAR	laser radar
kJ	kilojoule	LAER	lowest achievable emission reductions
KKV	kinetic kill vehicle	LAN	local area network
KLEXT	K-mixing, low-energy, X-ray triggering	LANL	Los Alamos National Laboratory
km	kilometer	LANS	local area network system
km/sec	kilometers per second	LASER	light amplification by stimulated emission of radiation
kN	kilonewton	LASERCOM	laser communications
KOH	potassium hydroxide	LAV	light armored vehicle
KP	North Korea	lb/hp-hr	pounds per horsepower-hour
kPa	kilopascal (0.00987 atmospheres)	lb/kW	pounds per kilowatt
Kr	krypton	LBNL	Lawrence Berkeley National Laboratory
KR	South Korea	LB/TS	large blast/thermal simulator
krad(Si)	kilorads (in silicon)	LC	liquid crystal
KrF	krypton-fluoride	LCAC	landing craft, air cushion
KRS	key recovery system	LCD	liquid crystal display
KSHV	Kaposi Sarcoma HV	LCI	load commutated inverter
ksi	thousand pounds per square inch	LCP	liquid crystal polymer
kt	kiloton (yield)		
kT	kiloton		

LCt	lethal concentration time	LOCAAS	Low-Cost Autonomous Attack System
LD	lethal dose		
LDCs	lesser developed countries	LORAN	long-range aid to navigation
LE	low explosive	LOS	line of sight
LEAF	law enforcement access field	LOSAT	line-of-sight antitank
LEC	local exchange carrier	LOTWG	Lasers and Optics Technology Working Group
LED	laser-emitting diode	LOVA	low-vulnerability ammunition
LED	light-emitting diode	LOX	liquid oxygen
LEED	low-energy electron diffraction	LP	liquid propellant
LEL	low-energy laser	LPCVD	low-pressure chemical vapor deposition
LEMP	lightning electromagnetic pulse		
LEO	low-Earth orbit	LPD	low probability of detection
LEU	low enriched uranium	LPG	liquefied petroleum gas
LFC	laminar flow control	LPI	low probability of intercept
LGG	light gas gun	LPI/LPD	low probability of intercept/low probability of detection
LH2	liquid hydrogen		
Li	lithium	LPT	low power transceiver
Li-ion	lithium-ion	LPTF	Laboratoire Primaire du Temps et des Fréquences
LICA 12	neopentyl(diallyl)oxy-tri(dioctyl) phosphato titanate	LRC	inductor, resistor, capacitor
LIDAR	light detection and ranging	LRERI	Lviv Radio Engineering Research Institute (Ukraine)
LIHE	laser-initiated high explosive		
LIS	laser isotope separation	LRF	laser range finder
LLI	Liebheer Aerospace Lindenberg	LRR	lower reposition rate
LLL	low light level	LRU	line replaceable unit
LLLTV	low light level TV	LSTAT	life support for trauma and transport
LLNL	Lawrence Livermore National Laboratory	LTBT	limited test ban treaty
LLRC	low repetition rate capacitors	LTE	local thermal equilibrium
LLS	laser line scanner	LTS	low-temperature superconductivity
LMDS	local multi-channel distribution service	LU	Luxembourg
LMFBR	liquid metal fast breeder reactor	LUCE	Laser Utilizing Communications Equipment
LMR	liquid metal reactor	LVIS	launch vibration isolation system
LMRS	long-term mine reconnaissance system	LWIM	low-power wireless microsensors
		LWIR	long-wave infrared
LMS	least mean square	LWIR	long wavelength infrared
LMT	large mmW telescope	LWR	laser warning receiver
LNG	liquefied natural gas	LY	Libya
LO	low observable		
LOCAAS	Low-Cost Antiarmor System		

m	meter	MBG	multiband gap
m	milli (10^{-3})	Mbit/sec	megabits/second
M	million; as prefix, Mega	Mbps	megabytes per second
M&C	management and control	MBT	main battle tank
M&S	modeling and simulation	Mbytes	megabytes
m/sec; m/s	meters per second	MC	molten carbonate
m ²	square meter	MC-1	chemical bomb
m ³	cubic meter	MCA	multi-chip assembly
MA	mega-ampere	MCAGCC	Marine Corps Air Ground Combat Center
mA	milliampere	MCFC	molten carbonate fuel cell
MA	mobile assistant	MCG	magnetocumulative generator
mA/cm ²	milliamps per square centimeter	MCH	methylcyclohexane
MAb	monoclonal antibody	MCH	methylcyclohexane
MABS	military application of blast simulation	MCM	mine countermeasure
MAC	message authentication code	MCM	multichip module
MAC	modified auxiliary closure	MCM-C	multichip modules-ceramic
MAE	medium altitude endurance	MCM-C/D	multichip modules-ceramic/deposited
MAFET	Microwave and Analog Front-End Technology	MCM-D	multichip modules-deposited
MAGIC	Multimission Advanced Ground Intelligent Control	MCM-L	multichip modules-laminated
MAGLEV	magnetic levitated	MCM-L/D	multichip modules-laminated/deposited
MAGT	MOS-assisted gate thyristor	MCNC	Microelectronic Center of North Carolina (University)
MAJCOM	Major Command (U.S. Air Force)	MCP	massively concurrent processing
MALDI	matrix-assisted laser desorption ionization	MCS	modular charge system
MAN	metropolitan area network	MCT	mercury cadmium telluride
MANPADS	Man-Portable Air Defense System	MCT	Militarily Critical Technologies
MAP	Microwave Anisotropy Probe	MCT	MOS-controlled thyristor
MAPO	tris-1-(2-methyl)aziridiny phosphine oxide	MCTL	Militarily Critical Technologies List
MAPS	Millimeter Wave Analysis of Passive Signature	MCTP	Militarily Critical Technologies Program
MAV	micro air vehicle	MCXO	microcomputer-compensated oscillator
MAXRD	impedance matched X-ray diode	MDA	Missile Defense Agency
MBB	Messerschmitt-Bolkow-Blohm (Germany)	MDP	multidisciplinary design optimization
MBBAY	a specific X-ray blowoff code	MDS	magneto-dynamic storage
MBCS	Meteor Burst Communications System	MEA	More Electric Aircraft
MBE	molecular beam epitaxy	MED	magneto-electric dynamic

MEDAL	Mine Warfare Environmental Decision Aids Library	MIB	management information base
MEDEVAC	medical evacuation	MIC	microwave integrated circuit
megarad(Si)	million rads (in silicon)	MICLIC	mine clearing line charge
MEL	medium-energy laser	MICOM	U. S. Army Missile Command
MEL-ARI	Microelectronics Advanced Research Initiative	MICV	mechanized infantry combat vehicle
MEM	microelectromechanical	MIEM	Master Information Exchange MOU (U.S.–UK)
MEMS	microelectromechanical systems	mil	one one-thousandth of an inch
MEO	medium-Earth Orbit	MILO	magnetic insulated line oscillator
MEO	middle Earth orbit	MILSATCOM	Military Satellite Communications
MEOMS	micro-electrooptical-mechanical systems	MILSPEC	military specification
MER	message error rate	MILSTAR	military, strategic, tactical, and relay (satellite)
MESA	microsystems and engineering science applications	MIL-STD	Military Standard
MESMA	Module d’Energie Sous-Marin Autonome	MIMP	Mesoscale Interface Mapping Project
Met	meteorology	min	minutes
MET	molecular electronic technology	MIPS	million instructions per second
Methyl	bis(2-methylaziridinyl)methylamino	MIPS	multimission image processing subsystem
METWG	Biomedical Technology Working Group	MIRV	multiple independently targetable reentry vehicles
MeV	million electron volts	MIS	management information system
MFC	magnetic field compression	MIT	Massachusetts Institute of Technology
MFCG	magnetic flux compression generator	MITI	Ministry of International Trade and Industry (Japan)
MFL	multiple-folded laser	MITI	Ministry of International Trade and Industry
MFSW	medium-frequency sky wave	MJ	megajoule
MFS3	multifunction staring sensor suite	mJ	millijoule
MFTWG	Manufacturing and Fabrication Technology Working Group	ml	milliliter
Mg	magnesium	ML	Munitions List (Wassenaar Arrangement)
mg	milligram	MLC	Military Load Class
mg/cc	milligrams per cubic centimeter	MLI	midlife improvement
mg/cm ²	milligrams per square centimeter	MLIS	molecular laser isotope separation
MHD	magnetohydrodynamic	MLRS	multiple launch rocket system
MHD-EMP	magnetohydrodynamic electro-magnetic pulse	MLS	microwave landing system
MHPCC	Maui High Performance Computing Center	mm	millimeter
MHz	megahertz	mm ²	square millimeter
		MMC	metal matrix composite
		MMD	mass medium diameter

MMH	monomethyl hydrazine	MOU	Memorandum of Understanding
MMIC	microwave/millimeter-wave monolithic integrated circuit	MOUT	military operations in urban terrain
MMIC	miniaturized monolithic integrated circuit	MOVPE	metal organic vapor phase epitaxy
MMIC	monolithic microwave integrated circuit	MPa	megapascals
mmIC	millimeter-wave IC	MPEG	Moving Pictures Expert Group
MMM	Mesoscale and Microscale Meteorology (Division of NCAR)	MPF	multipurpose fuze
MMMW	monolithic microwave millimeter wave	mph	miles per hour
MMST	Microelectronics Manufacturing Science and Technology	MPI	mean point of impact
MMT	Methods of Manufacturing Technologies	MPM	microwave power modules
mmw	millimeter wave	MPNTP	Master Positioning, Navigation, and Timing Plan
MMW	multi-megawatt	MPT	Ministry of Posts and Tele- communications (Japan)
MMWTIS	millimeter wave targeting and imaging system	MPTB	microelectronics and photonics testbed
MN	mega-newton	MPTWG	Materials and Processing Technology Working Group
MNS	mine neutralization system	MPU	microprocessor unit
MOCVD	metallo organic chemical vapor deposition	MR	magnetoresistive
MOCVD	metal oxide chemical vapor deposition	mrad	milliradians
MoD	Ministry of Defence (United Kingdom)	Mrad(Si)	million rads (in silicon)
MOD	means of delivery (of WMD)	mrem	millirem
Modem	modulator/demodulator	MRI	magnetic resonance imaging
MOE	micro-optical element	MRL	multiple rocket launcher
MOEMS	micro-optics-electromechanical system	MRMS	Millimeter Wave Reflectivity Measurement System
MOLLE	modular lightweight load-carrying equipment	mRNA	messenger ribonucleic acid
MOO	MUD, object-oriented	MS	marine systems
MOOTW	military operations other than war	MS	mass spectrometry
MOPP	mission-oriented protective posture	ms	millisecond
MOPS	million operations per second	MSCM	military systems, components, and materials
MOS	metal-oxide semiconductor	MSE	mobile subscriber equipment
MOSFET	metal-oxide semiconductor field- effect transistor	msec (ms)	millisecond
MOTS	micro-optical table systems	MSFC	Marshall Space Flight Center (NASA)
Mots	modified off-the-shelf	MSIMD	multiple single instruction multiple data
		MSIS	Multi-Sensor Integration System
		MSSS	Maui Space Surveillance Site (Air Force)
		MSTAR	moving and stationary target acquisition radar

MSTWG	Marine Systems Technology Working Group	NACA	National Advisory Committee on Aeronautics
MSX	midcourse space experiment	NACC	North Atlantic Cooperation Council
Mt	megaton	NAD	Navy Area TBMD
MT	metric ton	NAE	National Academy of Engineering
MTBF	mean time between failures	NAL	National Aerospace Laboratory (Japan)
MTBOH	mean time between overhaul	NAMRU	Naval Medical Research Unit
MTCR	Missile Technology Control Regime	NAS	National Academy of Sciences
MTF	modulation transfer function	NAS	network attached storage
MTI	moving target indication	NASA	National Aeronautics and Space Administration
MTO	Microsystems Technology Office (DARPA)	NASDA	National Space and Development Agency (Japan)
Mtops	million theoretical operations per second	NATIBO	North American Technology and Industrial Base Organization
MTSAT	multifunctional transport satellite	NATO	North Atlantic Treaty Organization
MTTF	mean time to failure	NAV	navigation
MUD	multiple user dimensions	NAVSAT	navigation satellite
MURAT	Munitions à Risques Atenues	NAVSEA	Naval Sea Systems Command
MV	megavolt	NAWC	Naval Air Warfare Center
MV	muzzle velocity	NB	narrow band
MV/cm	megavolts per centimeter	NBC	nuclear, biological, and chemical
MV/ns	megavolts per nanosecond	N/cm ²	newtons per square centimeter
MVA	megavolt-amperes	NC	numerically controlled
MVRS	muzzle velocity radar system	NCA	national command authorities
MW	megawatt	NCAC	National Crash Analysis Center (George Washington University)
mW	milliwatt	NCAR	National Center for Atmospheric Research
mW/cm ²	milliwatts per centimeter squared	NCARAI	Navy Center for Applied Research in Artificial Intelligence
MWCG	multiwave Cerenkov generator	NCIC	National Center for Intelligent Computing
MWh/kg	megawatt hours per kilogram	NCIS	National Clinical Information System
MWIR	medium wavelength infrared	NCMS	National Center for Manufacturing Science
MWIR	midwave infrared	NCP	network control point
MX	Mexico	NCW	network-centric warfare
n	nano	Nd	neodymium
N	newton	Nd:YAG	neodymium:yttrium aluminum garnet
N D	n-dimensional		
N.B.	nota bene		
N/m ²	newtons per square meter		
NA	numerical aperture		
Na	sodium		

NDE	nondestructive evaluation	NIRIM	National Institute for Research in Inorganic Materials
NDGPS	National Differential Global Positioning System	NIST	National Institute of Standards and Technology
NDI	nondestructive inspection	NJIT	New Jersey Institute of Technology
NDRE	Norwegian Defense Research Establishment	nK	nanokelvin
NDT	nondestructive test	NL	Netherlands
NDU	non-digitized unit	NLO	nonlinear optical
NDUL	Nuclear Dual-Use List (NSG)	NLR	National Aerospace Laboratory (Netherlands)
NE	network element	NLW	nonlethal weapon
NE	northeast	nm	nanometer
NEDO	New Energy and Industrial Technology Development Organization	NM	network management
NELS	Northern European LORAN System	NMD	National Missile Defense
NEM	nanoelectromechanical	nmi	nautical mile
NEMO	Naval EarthMap Observer	NMIH	nickel metal hydride
NEMP	nuclear electromagnetic pulse	NMMO	3-nitratomethyl-3-methyloxetane
NEMS	nanoelectromechanical systems	NMP	New Millenium Program
NEP	noise equivalent power	nmph	nautical miles per hour
NEPE	nitrate ester plasticized polyether	NMR	nuclear magnetic resonance
NETD	noise-equivalent temperature difference	NMRCI	National Microelectronics Research Centre, Ireland
NF	New Forum	NMRS	Near-Term Mine Reconnaissance System
NG	nitroglycerin	NNI	National Nanotechnology Initiative
NGIC	National Ground Intelligence Center	NNWS	non-nuclear weapons states
NGL	next-generation lithography	NO	Naval Operations
nH/A	nanohenries per ampere	NO	Norway
nHz	nanohertz	NOAA	National Oceanic and Atmospheric Administration
Ni	nickel	NOC	network operations center
NIH	National Institutes of Health	NOCINCO	China North Chemical Industries Corporation
NIIRS	National Imagery Interpretability Rating Scale	NOEL	Nonlinear Electronics Laboratory
NIJ	National Institute of Justice	NOL	Naval Ordnance Laboratory
NIMA	National Imagery and Mapping Agency	NONA	nonanitroterphenyl
NIMH	nickel metal hydride	NOS	network operations centers
NIMIC	NATO Insensitive Munitions Information Center	NOSC	Naval Ocean Systems Center
NIR	near infrared	NOx	oxides of nitrogen
		NOx	nitrogen oxide
		NP	neutral particle
		NP	nonproliferation

NPB	neutral particle beam	NTW	Navy Theater Wide
NPT	Nuclear Non-Proliferation Treaty	NUDET	nuclear denotation
NQ	nitroguanidine	NUST	National University of Sciences and Technology (China)
NQR	nuclear quadrupole resonance	NUWC	Naval Undersea Warfare Center
NRAC	Naval Research Advisory Committee	NV	night vision
NRC	National Research Council	NVG	night vision goggles
NRC	National Response Center	NVS	night vision system
NRC	Nuclear Regulatory Commission	NWC	Naval Weapons Center
NRDEC	Natick Research, Development and Engineering Center	NWE	nuclear weapons effects
NRL	Naval Research Laboratory	NWES	nuclear weapons effects simulation
NRO	National Reconnaissance Office	NWS	nuclear weapons state
NRT	near real time	NZ	New Zealand
NS	nuclear systems	O&M	operation and maintenance
NS&E	nanoscale science and engineering	O&S	operation and support
NSA	National Security Agency	O ² -I	oxygen iodine
NSAN	nonstabilized ammonium nitrate	OASDSOLIC	Office of the Assistant Secretary of Defense for Special Operations and Low-Intensity Conflict
NSC	Natick Soldier Center (U.S. Army)	OAV	organic air vehicle
nsec (ns)	nanosecond	OC	optical carrier
NSF	National Science Foundation	OCAR	Office of Crash Avoidance Research
NSG	Nuclear Suppliers Group	OCCM	optical counter-countermeasures
NSIAD	National Security and International Affairs Division	OCM	optical countermeasures
NSLS	National Synchrotron Light Source	OCR	organic cooled reactor
NSOM	nearfield optical scanning microscopy	Octal	aluminum octadecanoate
NSRC	Naval Surface Research Center	Octal	HMX/TNT mixtures
NSTC	National Science and Technology Council	ODP	oxygen depleting potential
NSTWG	Nuclear Systems Technology Working Group	OE	opto-electronics
NSWC	Naval Surface Warfare Center	OEIC	optoelectric integrated circuit
nT	nanotesla	OFHC	oxygen-free high conductivity
NTI/O	nontraditional input/output	OI	optical interconnection
NTL	Nuclear Trigger List (supplement of NSG)	OICETS	Optical Inter-orbit Communications Engineering Test Satellite
NTO	nitrogen tetroxide	OJT	on-the-job training
NTO	3-nitro-1,2,4-triazol-5-one	OLAP	on-line analytical processing
NTRS	National Technology Roadmap for Semiconductors	OLE	object linking and embedding
NTTC	National Technology Transfer Center (NASA)	OLETC	Office of Law Enforcement Technology Commercialization
		OLTP	on-line transaction processing

OMV	orbit maneuvering vehicles	PBAN	polybutadiene-acrylic acid-acrylonitrile
ONERA	Office National d'Études et de Recherches Aérospatiale	PbS	lead sulphide
ONR	Office of Naval Research	PbSe	lead selenide
ONTA	3-nitro-1,2,4-triazol-5-one	PbSnTe	lead tin telluride
OODA	observe-orient-decide-act	PBV	post-boost vehicle
OOT	object-oriented technologies	PBW	power by wire
OOTW	operations other than war	PBX	plastic-bonded explosive
OPC	optical proximity correction	PC	personal computer
OPO	optical parametric oscillator	PCB	printed circuit board
OPSEC	operations security	PCDE	polycyanodifluoroamino-ethyleneoxide
ORASIS	Optical Real-Time Adaptive Signature Identification System	pCLC	polymeric cholesteric liquid crystal
ORD	operational requirements document	PCMCIA	Personal Computer Memory Card International Association
ORNL	Oak Ridge National Laboratory	PCR	polymerase chain reaction
ORU	operational resource unit	PCRC	photochemical reaction system
OSD	Office of the Secretary of Defense	PCS	personal communications system
OSHA	Occupational Safety and Health Administration	PCSS	photoconductive solid-state switching
OSI	open systems interconnection	PD	photo detectors
OSL	optically stimulated luminescence	PDA	pulsed disk alternator
OSP	Orbital/Sub-Orbital Program	PDE	pulse-detonation engine
OTH	over the horizon	PDMS	polydimethylsiloxane
OTM	on the move	PE	piezoelectric
OTS	off the shelf	PEBB	power electronic building block
OTV	orbital transfer vehicle	PEFC	polymer electrolyte fuel cell
P	phosphide	PEFC	proton exchange fuel cell polymer electrolyte fuel cell
Pa	pascal	PEIP	programmable embeddable INFOSEC product
PA	phosphoric acid	PEK	polyether ketone
Pa/s	pascals per second	PEM	proton exchange membrane
PAC-3	Patriot Advanced Capability-3	PEMFC	proton exchange membrane fuel cell
PAFC	phosphoric acid fuel cell	PEMS	pico-electromechanical systems
PAHO	Pan-American Health Organization	PET	positron emission tomography
PAI	pathogenicity island	PET	pulsed electrothermal
PALs	permissive action links	PETN	pentaerythritol tetranitrate
PAM	penetration-augmented munition	PEX	paste extrudable explosive
PAR	precision approach radar	PFN	pulse-forming network
PB	particle beam	PFP AE	perfluorinated polyalkyl ether
PBAA	polybutadiene-acrylic acid		

PGM	precision-guided munition	PPT	pulsed plasma thruster
PGN	polyglycidyl nitrate	PRBG	pseudo-random bit generator
PGU	power-generation unit	PRC	People's Republic of China
PH	Philippines	PRC	photochemical reaction center
PHLASH	Phone Home Link for Autonomous Spacecraft Handling	PRCS	photochemical reaction center synthesis/structure
PHM	Prognostics and Health Management	PRD	pinch reflex diode
PIN	personal identification number	PRF	pulse repetition frequency
PIN	positive-intrinsic-negative diode	PROM	programmable read-only memory
PIO	pilot-induced oscillation	PRPB	Propulsion Directorate/Battery Branch
PIR	passive infrared	PRS	plasma radiation source
PIV	Particle-Imaging Velocimetry	ps	picosecond
PK	Pakistan	PSA	pressure swing absorption
PKI	public key infrastructure	PSAC	performance-seeking aircraft control
PL	Poland	PSAM	phase-stabilized ammonium nitrate
PLGR	Precision Lightweight GPS Receiver	PSD	power spectral density
PM	permanent magnet	psf	pounds per square foot
PM	phase modulation	psi	pounds per square inch
PM	photomultiplier	psia	pounds per square inch absolute
PM	Program Manager	psig	pounds per square inch gauge
PMC	polymer matrix composite	PSM	phase-shifting masks
PMT	photomultiplier tube	PSO	peace support operation
PNT	positioning, navigation, and time	PSP	plasma separation process
PNTP	precision network time protocol	PSVN	public switched voice networks
PNTWG	Positioning, Navigation, and Time Technology Working Group	PT	Portugal
POE	point of entry	PT&F	precise time and frequency
POF	plastic optical fibers	PTI	precision targeting identification
poly-GLYN	poly(nitratomethyloxirane)	PTR	photo-thermo-refractive
POS/NAV	position/navigation	PtSi	platinum silicide
POSITIME	position and time	PTT	postal, telephone, and telegraph
POSTECH	Pohang University of Science and Technology (South Korea)	PTTI	precise time and time intervals
POTS	plain ordinary telephone system	Pu	plutonium
ppb	parts per billion	PUREX	plutonium uranium recovery by extraction
ppm	parts per million	PV	photovoltaic
PPM	proton precession magnetometer	PV/W	pressure-volume/weight
PPS	precise positioning service	PVD	physical vapor deposition
pps	pulses per second	PVF ₂	polyvinylidene fluoride
ppt	parts per trillion	PVP	polyvinylpyrrolidone
		PW	penetrating weapon

PWM	pulse width modulation	RASER	Research and Seeker Emulation Radar
PWR	pressurized water reactor	RBG	random bit generation
PWSC	preferred weapon system concept	RBLOS	regional beyond-line-of-sight
PYX	picrylamino-dinitropyridine	RBMK	(Russian) high-power pressure-tube reactor
PZT	lead zirconate titanate	RC	resistance-capacitance
Q	a figure of merit for a resonant circuit	RCA	Radar for Collision Avoidance
Q&A	question and answer	RCM	reciprocating chemical muscle
QA/QC	quality assurance/quality control	RCRA	Resource Conservation and Recovery Act
QAM	quadrature amplitude modulation	RCS	radar cross section
QC	quality control	RD&E	research, development, and engineering
QD	quantum dot	RDA	representational difference analyses
QED	quantum electrodynamics	RDEC	Research, Development, and Engineering Center
QIP	quantum information processing	RDF	Rapid Deployment Force
QIPC	quantum information processing/communication	RDG	relativistic diffraction generator
QNOS	quantum nano-optics of semiconductors	RDT&E	research, development, test, and evaluation
QW	quantum well	RDX	cyclotri-methylenetrinitramine
QWIP	quantum well infrared photodetector	RESTORE	Reconfigurable Systems for Tailless Fighter Aircraft
R	range	RET	resolution enhancement techniques
R&D	research and development	REVCON	Revolutionary Concepts (NASA project)
R/W	read/write	RF, rf	radio frequency
rad hard	radiation hardened	rf/mmW	Radio Frequency/Millimeter Wave (Facility)
rad(Si)	radiation absorbed dose (in silicon)	RFC	request for comments
rad(Si)/sec	rads (si) per second	RFI	radio frequency interference
RADAR	radio detecting and ranging	RFID	radio-frequency identification
rads	radiation absorbed dose	RFQ	radio frequency quadruple
RADX	cyclotri-methylenetrinitramine	RHA	rolled homogeneous armor
RAID	random array of independent devices	RIE	reactive ion etching
RAID	rapid assessment and initial detection	RIMMP	radar instrument for measurement of land vehicle movement parameters
RAID	redundant array of independent disks	RISC	reduced instruction set computers
RaLa	radioactive lanthanum	RKA	relativistic klystron amplifier
RAM	radar absorbing materials	RKA	Russian Space Agency
RAM	random access memory	RLG	ring laser gyroscope
RAMICS	rapid airborne mine clearance system		
RAP	rocket-assisted projectile		
RAS	Russian Academy of Sciences		

RLV	reusable launch vehicle	s	second
RMP	reprogrammable microprocessor	S	siemen (unit of electrical conductivity)
RMS	remote minehunting system	S&H	survivability and hardening
rms	root mean square	S&R	search and rescue
RNA	ribonucleic acid	S&T	science and technology
RO	reverse osmosis	S&TW	surveillance and threat warning
RO	Romania	S/A	selective availability
ROC	receiver operating characteristic	S/cm	siemens per centimeter
ROE	rules of engagement	S/m	siemens per meter
ROIC	readout integrated circuit	S/N	signal to noise (ratio)
ROM	read-only memory	SA	Saudi Arabia
ROV	remotely operated vehicles	SA	situational awareness
RPG	rocket-propelled grenade	SA/CID	situational awareness/combat identification
RPM	rapid prototype manufacturing	SAA	South Atlantaic Anomaly
RPM, rpm	revolutions per minute	SABER	situational awareness beacon with reply
RPV	remotely piloted vehicle	SABRE	shallow water assault breaching
RSC	Rocket Space Corporation (Russia)	SACLOS	semi-automatic command to line of sight
RSCAAL	remote sensing chemical agent alarm	SACMA	Suppliers of Advanced Composite Materials Association
RSMD	radar sensor for maintaining the distance	SADARM	sense and destroy armor
RSST	rapid synthesis and simulation tool	SADL FAC	situational awareness data link forward air controller
RSTA	reconnaissance, surveillance, and target acquisition	SAE	Society of Automotive Engineers
RSVP	reduced ship's crew by virtual presence	SAF	safing, arming, and fuzing
RTD	resonant tunneling diodes	SAFF	safing, arming, fuzing, and firing
RTG	radioisotope thermoelectric generators	SAFOR	semi-automated forces
RTI	run-time infrastructure	SAM	self-assembling membrane
RTK	real-time kinematic	SAM	surface-to-air missile
RTTY	radio teletype	SAMPEX	Solar Anomalous and Magneto-spheric Particle Explorer
RU	Russia	SAN	storage area network
RV	reentry vehicle	SAR	search and rescue
RV	remote vehicles	SAR	synthetic aperture radar
RW	rotary wing	SAS	Survivable Adaptive System
RWC	real-world computing	SATCOM	communication satellite
		SAW	surface acoustic wave
		Sb	antimony (stibium)

SBCCOM	U.S. Army Soldier and Biological Chemical Command	SDO	State Design Office (Ukraine)
SBEON	space-based electro-optical network	SDT	spin-dependent tunneling
SBIR	Small Business Innovation Research	SE	spontaneous emission
SBIR	small business innovative research	SE	static electric
SBIRS	Space-Based Infrared System	SE	Sweden
SBIRS-Low	Space-Based Infrared System-Low	SEE	single event effect
SBL	space-based laser	SE&I	systems engineering and integration
SBR	space-based radar	SEA	statistical energy analysis
SBV	space-based visible	sec	second
SC	single crystal	SECOMS	satellite EHF communications for mobile multimedia services
SCADA	supervisory control and data acquisition system	SEFI	single-event fault-interrupt
SCALPEL	scattering with angular limitation projection electron-beam lithography	SELEX	systemic evolution of ligands by exponential enrichment
SCDE	simplified collective detection equipment	SELT	sheet-explosive loading technique
SCGT	simple-cycle gas turbine	SEM	scanning electronic microscope
SCM	scanning capacitance microscopy	SEMI	Semiconductor Equipment and Materials International
SCM	systems, components, and materials	SEP	Société Européenne de Propulsion
SCO	split cavity oscillator	SEP	spherical error probable
SCPE	simplified collective protection equipment	Sep	system enhancement package
SCPS	Space Communication Protocol Standard	SES	surface effect ships
SCR	silicon controlled rectifier	SET	single electron tunneling
Scramjet	supersonic combustion ramjet	SET	single event transients
SCSI	small computer system interface	SET	synchronizing enabling technologies
SCSI	Society for Computer Simulation International	SETWG	Sensors Technology Working Group
SCTWG	Signature Control Technology Working Group	SEU	single-event upset
SCUBA	self-contained underwater breathing apparatus	SEV	surface-effect vehicles
SCUD	western name for early Soviet missile system	SF	superfluorescence
SDH	synchronous digital hierarchy	SFAP	space-frequency adaptive processor
SDI	strategic defense initiative	SFC	specific fuel consumption
SDIO	Strategic Defense Initiative Organization	SFODB	Spaceborne Fiber-Optic Data Bus
SDN	software defined network	SG	Singapore
		SGEMP	system-generated electromagnetic pulse
		SHA	secure hash algorithm
		SHF	super-high frequency
		SHORAD	Short-Range Air Defence
		SHPL	super high power laser

Si	silicon	SMART	Smart Materials Actuated Rotor Technology
SI	Système Internationale d'Unités (The International System of Units)	SMC	Space and Missile Systems Center (U.S. Air Force)
SIA	Semiconductor Industry Association	SMC/T&E	Space and Missile Systems Center Test and Evaluation Directorate
SiC	silicon carbide	SMI	structure of management information
SiGe	silicon germanium	SMNP	simple management network protocol
SiGeB	silicon-germanium boron	SMP	shape memory polymer
SiGeC	silicon-germanium carbon	SMP	symmetrical multiprocessor
SIGINT	signals intelligence	SMR	specialized mobile radio
SILEX	Semiconductor Laser Intersatellite Link Experiment	SMS	system management system
SIMD	single instruction, multiple data	SN	sensors and navigation
SIMOX	separation by the implantation of oxygen	SNL	Sandia National Laboratory
SiN	silicon nitride	SNM	special nuclear material
SINGARS	single-channel ground and airborne radio system	SNMP	simple network management protocol
SINS	ships inertial navigation systems	SNPE	Société Nationale des Poudres et Explosifs
SiO ₂	silicon dioxide	SNR	signal-to-noise ratio
SiOC	silicon oxycarbide	SO	solid oxide
SIP	SINGARS Improvement Program	SOA	safe operating area
SIPE	soldier integrated protective ensemble	SOF	Special Operations Force
SIS	signal in space	SOFC	solid oxide fuel cell
SIT	silicon intensified target	SOFRADIR	Société Française de Détecteurs Infrarouge
SK	Slovakia	SOI	silicon on insulator
SKIPPER	a specific lagrangian ground motion code	SONET	synchronous optical network
SLAC	Stanford Linear Accelerator	SOS	silicon-on-sapphire
SLAM	selectable lightweight attack munition	SOTV	solar orbit transfer vehicle
SLAM	standoff land attack missile	SP	self propelled
SLAR	side-looking airborne radar	SP	solid propellant
SLM	spatial light modulator	SP	Spain [ES - (ISO)]
SLOC	sea line of communication	SPAWAR	Space and Naval Warfare Systems Command
SLR	satellite laser ranging	SPD	severe plastic deformation
SLS	side-looking sonar	SPDT	single point diamond turning
SLUFAE	surface-launched fuel air explosive	SPE	synchronous payload envelope
SLV	space-launch vehicle	SPECT	single photon emission computerized tomography
SMA	shape memory alloy		

SPEEDES	synchronous parallel environment for emulation and discrete-event simulation	SSK	conventional-powered attack submarine
SPES	synchronous payload envelopes	SSM	semi-solid metalworking
SPF/DB	superplastic forming/diffusion bonding	SSME	Space Shuttle Manned Explorer
SPFC	solid polymer electrolyte fuel cell	SSN	submarine, nuclear attack
SpG	specific gravity	SSNS	solid-state navigation system
SPH	smoothed particle hydrodynamics	SSOP	shrink small outline package
SPLAT	spray lead at target	SSR	secondary surveillance radar
SPM	scanning probe microscopy	SST	supersonic transport
SPO	System Program Office	SSTO	single-stage-to-orbit
SPOD	seaport of debarkation	SSTWG	Space Systems Technology Working Group
SPOT	Satellite Pour l'Observation de la Terre	STANAG	standardization agreement
SPS	Standard Positioning Service	STAP	space-time adaptive processor; space-time adaptive processing
SQC	statistical quality control	STFD	spatial time-frequency distribution
SQUID	superconductive quantum interference device	STIO	Space Technology Integration Office
SR	Slovak Republic	STM	scanning tunneling microscope
SR-12	ammonium dinitramide	STM	synchronous transport module
SRA	shop-replaceable assembly	STO	science and technology objective
SRAM	short-range attack missile	STO	scientific technology objective
SRAM	static random access memory	STOL	short takeoff and landing
SRBM	short-range ballistic missile	STOM	ship-to-objective maneuver
SREMP	source region electromagnetic pulse	STOW	synthetic theater of war
SRS	stimulated Raman scattering	STP	solar thermal propulsion
SRTM	Shuttle Radar Topography Mission	STP	standard temperature and pressure
SS	signaling system	STRICOM	U.S. Army Stimulation, Training, and Instrumentation Command
SS	space system	STS	Satellite Tracking System
SSA	Ship Support Agency	STS	stockpile-to-target sequence
SSA	solid-state amplifier	STS	synchronous transport signal
SSB	conventional-powered ballistic missile submarine	STTR	small business technology transfer program
SSB	single sideband	STW	Surveillance and Threat Warning
SSBN	submarine ballistic missile nuclear	SUNY	State University of New York
SSDC	Space and Strategic Defense Command (U.S. Army)	SURTASS	surveillance towed array sensor systems
SSG	conventional-powered guided missile submarine	SUSOPS	sustained operations
SSGN	nuclear-powered guided missile submarine	SWAS	small water plane area ship
		SWATH	small waterplane area twin hull
		SWIR	short wavelength infrared

SwRI	Southwest Research Institute	Tc	superconducting temperature (high T _c = 77 K, low T _c = 4 K)
SWS	subwavelength structured	T ^c	transition temperatures
SY	Syria	Tc	transmit clock/telemetry combiner
T	tesla	TCM	trajectory correctable munition
t	ton	TCP/IP	transmission control protocol/ internet protocol
T	tritium	TCSEC	trusted computer system evaluation criteria
T&E	test and evaluation	TCT	time-critical targeting
T, P, and I	test, production, and inspection	TCXO	temperature-compensated crystal oscillator
T/P	TOPEX/POSEIDON	TDA	time to double amplitude
T/R	transmit and receive	TDD	target detection device
T/T	transceiver	TDI	time delay and integration
T/W	thrust-to-weight (ratio)	TDM	time division multiplexing
TacMedCS	Tactical Medical Coordination System	TDMA	time division multiple access
TACMS	Tactical Missile System	TDOA	time difference of arrival
TACOM	Tank-Automotive and Armaments Command (U.S. Army)	TDRI	Technical Research and Development Institute (Japan)
TADIL	tactical data information link	TDRSS	Tracking and Data Relay Satellite System
TADMUS	tactical decision-making under stress	Te	telluride
TAGN	triaminoguanidinenitrate	TE	thermoelectric
TAIW	tetraacetyldibenzylhexaazaiso- wurtzitane	TE	transverse electric
TAPS	tunnel and pipe seal	TEGDN	triethyleneglycoldinitrate
TARDEC	Tank Automotive Research, Development, and Engineering Command	TEL	transporter/erector launcher
TARFS	three axis of rotation flight simulator	TEM	transmission electron microscopy
TAS	thallium arsenic selenide	TEM	transverse electromagnetic
TASER	Tom A. Swift's Electric Rifle	TEMPEST	transient electromagnetic pulse emanations standard
TAT	1,3,5,7-tetraacetyl-1,3,5,7-tetra- azacyclooctane	TEPAN	tetraethylenepentamine-acrylonitrile
TATB	triaminotrinitrobenzene (high- temperature explosive)	TEPANOL	tetraethylenepentamine- acrylonitrileglycidol
TAV	transatmospheric vehicle	TE-PVD	thermal evaporation—physical vapor deposition
TB	tuberculosis	TERCOM	terrain contour matching
TBM	theater ballistic missile	TERM-KE	tank extended range munition- kinetic energy
TBMD	theater ballistic missile defense	TERPROM	terrain profile matchup
TBN	tactical ballistic missile	TES	Tactical Exploitation System
TBP	tri-n-butyl-phosphate	Tetryl	trinitro-phenylmethylnitramine
Tc	critical temperature	TEU	technical escort unit

TeV	tera electron volt	TNT	trinitrotoluene
TFC	transverse field compensation	TOC	tactical operations center
TFT	thin-film transistor	TOPS	total object processing system
T _g	glass transition temperature	Torr	pressure equivalent of 1 millimeter of mercury
TGSM	terminally guided submunition	TOW	tube-launched, optically tracked, wire-guided (antitank missile)
TH	Thailand	TPB	triphenyl bismuth
THAAD	Theater High-Altitude Area Defense	TPL	towed pinger locator
ThAD	tetranitrotetraadecalin	TPP	theoretical peak performance
THEL	tactical high-energy laser	TPV	thermophotovoltaics
THz	terahertz	TR	target recognition
TI	target identification	TR	transition radiation
TI	thermal imaging	TR	Turkey
Ti	titanium	TRACER	Tactical Reconnaissance Armoured Combat Equipment Requirement
TID	total incident dose	TRADOC	U.S. Army Training and Doctrine Command
TIR	total indicated reading	TRANET	Transit Network (U.S. Navy)
TIS	total integrated scattering	TRANSEC	transmission security
TIS	trusted information system	TRAPATT	trapped plasma avalanche transit-time triode
TLD	thermoluminescent dosimetry	TREE	transient radiation effects on electronics
TLE	target location error	TRIGAT	Tri-lateral Antitank Guided Weapon
TLGC	transfer line gas chromatography	TRI-TAC	Tri-Services-Tactical Communications
TM	transverse magnetic	TRMA	traceability, reliability, maintainability, and availability
TMD	Theater Missile Defense	TRMM	Tropical Rainfall Measuring Mission (NASA satellite)
TMN	telecommunication management network	TRP	Technology Reinvestment Program
TMP	trimethylol propane	TSA	temperature swing adsorption
TMS	thermomechanical shock	TsAGI	Russian Central Aero- and Hydrodynamic Institute
TN	thermonuclear	TSOP	thin small outline package
TN	Tunisia	TSR	thermostructural response
TNAD	1,4,5,8-tetranitro-1,4,5,8-tetra-azadecalin	TSS	telecommunications system sector
TNAZ	1,1,3-trinitroazetidine	TT&C	telemetry tracking and controls
TNEOC	polynitroorthocarbonate	TTO	Technology Transition Office
TNGU	tetranitroglycoluril	TTP	tactics, techniques, and procedures
TNO	Nederlandse Organisatie Voor Toegepast Natuurwetenschappelijk Onderzoek (The Netherlands Organization for Applied Scientific Research)	TTP	trusted third party
TNO-PML	The Netherlands Organization for Science and Technology-Prins Maurits Laboratory	TUGV	tactical unmanned ground vehicle
TNPDU	tetranitropropanediurea		

Tupolev ANTK	A.N. Tupolev Scientific and Technological Aviation Complex	UNDEX	underwater explosion
TV	television	uPa/g	micropascal per gram
TVC	thrust vector control	UPC	unit processing code
TVOPA	(tris vinoxypropane adduct) 1,2,3-tris(1,2-bis(difluoro-amonio)ethoxy)propane	UPS	uninterruptible or uninterrupted power supply
TVSS	toroidal volume search sonar	UPS	uninterruptible power system
TW	Taiwan	USA	U.S. Army
TW	terawatt	USAF	U.S. Air Force
TW	throw weight	USAMRIID	United States Army Medical Research Institute of Infectious Diseases
TW	toxin weapon	USARTTC	U.S. Army Redstone Technical Test Center
TWG	Technology Working Group	USASMDC	United States Army Space and Missile Command
TWT	traveling wave tube	USCG	U.S. Coast Guard
U	uranium	USG	United States Government
UA	Ukraine	USMC	United States Marine Corps
UAV	unmanned aerial vehicle	USML	United States Munition List
UAV	unmanned air vehicle	USN	U.S. Navy
UCAR	University Corporation for Atmospheric Research	USNO	United States Naval Observatory
UCAV	uninhabited combat air vehicle	USSPACECOM	United States Space Command
UDMH	unsymmetrical dimethyl hydrazine	USSR	Union of Soviet Socialist Republics
UEP	underwater electric potential	USW	undersea warfare
UF ₆	uranium hexafluoride	UTC	coordinated universal time
UFCV	ultra-fast closing valve	UTS	ultimate tensile strength
UFPA	Universidade Federal do Pará (Brazil)	UUV	unmanned underwater vehicle
UGS	unattended ground sensors	UV	ultraviolet
UGS	unattended ground systems	UWB	ultra-wideband
UGT	underground testing	UXGA	ultra extended graphics array
UGV	unmanned ground vehicle	UXO	unexploded ordnance
UGWET	underground nuclear weapons effects test	V Agents	nerve agents
UGWET	underground weapons evaluation and testing	V	volt
UHCA	ultrahigh-capacity airliner	V&V	verification and validation
UHF	ultrahigh frequency	V/m	volts per meter
UHV	ultrahigh vacuum	V/sec	volts per second
UK	United Kingdom	V-A	volt-ampere
ULSI	ultra-large-scale integration	VBAD	Vehicle Blinde d'Appui
UN	United Nations	VCN	voice communications network
		VCR	videocassette recorder

VCSEL	vertical cavity surface emitting laser	W/kg	watts per kilogram
VDD	voltage drain drain	W/L	watt per liter
VE	Venezuela	W/s	watts per second
VEMASID	vehicle magnetic signature duplicators	WA Cat	Wassenaar Arrangement—Dual-Use List Category
VETRONICS	vehicle electronics	WA ML	Wassenaar Arrangement—Munitions List
VHF	very high frequency	WA	Wassenaar Arrangement
VHN	Vickers hardness	WAAS	wide-area augmentation system
VHSIC	very high-speed integrated circuit	WAM	wide-area mine
VIS	visible	WANS	wide-area network system
VLCI	vehicle limiting cone index	WAS	wide-area search
VLCT	very large commercial transport	WB	wide band
VLf	very low frequency	WCS	wearable computer system
VLSI	very large-scale integrated	WDDI	wire-distributed data interface
VLSI	very large-scale integration	WDM	wavelength division multiplexing
VLWIR	very long-wave infrared	We/kg	watts (electric) per kilogram
VMF	variable message format	WET	weapons effects test
VMS	vehicle management system	WETWG	Weapons Effects and Counter-measures Technology Working Group
VN	Vietnam	WGS	World Geodetic System
VNL	Virtual National Laboratory	w-h/kg	watt-hour per kilogram
VOC	volatile organic compounds	WHO	World Health Organization
VOR	very-high-frequency omni-directional range	Whr/kg	watt-hour per kilogram
VPB	vacuum power booster	Whr/L	watt-hour per liter
VPI	vertical plane imaging	WII	world information infrastructure
VPN	virtual private network	WMD	weapons of mass destruction
VR	virtual reality	WORM	write once/read many
VSAT	very-small-aperture terminal	WP	white phosphorus
VSHORAD	Very Short-Range Air Defence	WPAFB	Wright-Patterson Air Force Base
VTOL	vertical takeoff and landing	WRA	weapon replacement assembly
VTR	video tape recorder	WSMR	White Sands Missile Range
VUV	vacuum ultraviolet	WST	Weapons Systems Technologies
VVA	verification, validation, and authentication	WTA	Worldwide Technology Assessment
VWF	variable message format	WTEC	World Technology Evaluation Center
VX	chemical nerve agent	WWI	World War I
W	watt	WWMCCS	Worldwide Military Command and Control System
W/cm ²	watts per square centimeter	WWW	Worldwide Web
W/in	watts per inch		

XO	crystal oscillator	ZGP	zinc germanium phosphide
XPS	photoelectron spectroscopy	Zn	zinc
XTE	X-ray Timing Explorer	ZNP	zero-knowledge proofs
YAG	yttrium/aluminum garnet	ZnS	zinc sulfide
YBCO	yttrium barium copper oxide	ZnSe	zinc selenide
YSGG	yttrium scandium gallium garnet	ZrF ₄	zirconium fluoride
		ZVS	zero voltage switching
Z	atomic number		
ZA	South Africa		
ZCS	zero current switching		